Rhode Island Airport Corporation

December 1, 2025

ADDENDUM NO. 02

Invitation for Bids (IFB) No. 36661

NETWORK REFRESH – PROCURMENT, INSTALLATION, AND PROGRAMMING at / for Rhode Island T. F. Green International Airport (PVD)

Prospective proposers and all concerned are hereby notified of the following changes in the document(s) related to: **Invitation for Bids (IFB) 36661.** These changes shall be incorporated in and shall become an integral part of the contract documents.

1. **Is there an incumbent? If so, who is it?**
   A: No, there is not.

2. **Should we submit a bid bond when we present our proposal, or can we provide evidence that we can obtain one. Once RIAC is ready to award the contract, a bid bond can be obtained prior to a PO. Would that be acceptable?**
   A: Yes, Bid Bond will be required at the time of Bid please refer to the Section 00010.

3. **Is winning Bidder responsible for identifying and moving any patch cables from the existing core or distribution layer?**
   a. **If so, what is the approximate quantity and breakdown (fiber, copper) of the cables to identify and move?**
   A: Yes, anticipate full port count per switch.

4. **What transceivers are required for the FortiGate replacements?**
   A: Fortinet certified and compatible products (singlemode fiber optics, duplex LC).

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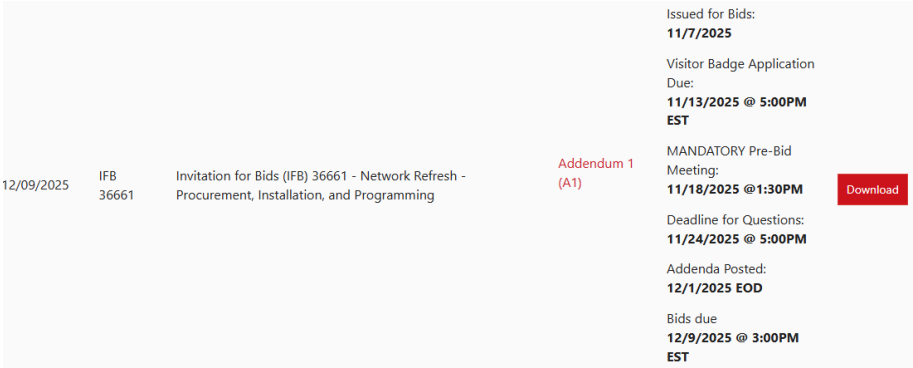
5. **Is a vector drawing (such as Visio) acceptable for Rack Elevation, High-Level Design (HLD), and Low-Level Design (LLD)?**
   A: Yes
6. **Can you provide a link for Rack drawings? If not, could you please provide the total counts of Data Centers (DCs), Main Distribution Frames (MDFs), and Intermediate Distribution Frames (IDFs), and the number of switches in each room? Yes it was in the initial download.**
   A:
   https://flyri.com/riac/procurement/



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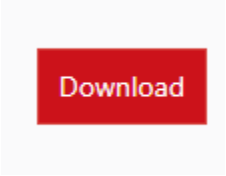

Fill out the form:

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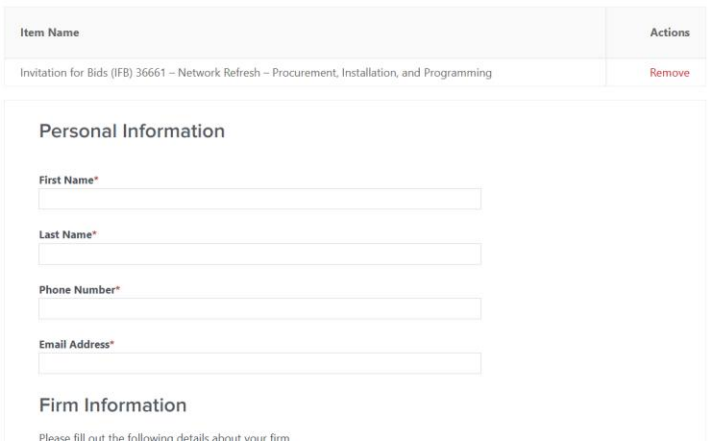
Bid Download Form



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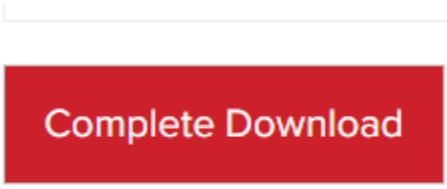

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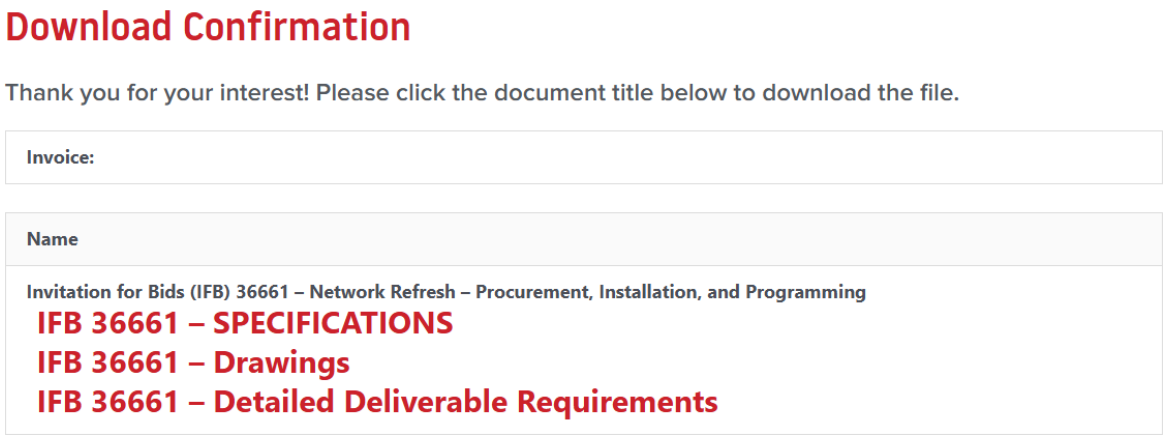

Click IFB 36661 – Drawings

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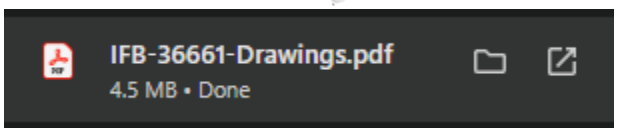

The PDF will download to your browser.

Next open the PDF.

7. **Can you clarify the Support requirements reference in Section 12 of the IFB-36661 document?**

   A: The owner will utilize the requirement in Section 12 for the one-year warranty period which will begin upon beneficial use.

8. **Is RIAC looking for Managed Services support for the network as referenced in Section 12 of the IFB-36661 document?**

   A: No, the owner will utilize the requirement in Section 12 for the one-year warranty period which will begin upon beneficial use.

9. **What is the required warranty duration? The IFB calls for 1 year from Beneficial Occupancy, but the suggested BOM lists 3 years. Should we quote 3 years, as referenced in the suggested BOM, to remain price-competitive?**

   A: Please quote one year for cores, distribution and edge switches. The specification will be updated.

10. **What is the "Beneficial Occupancy Date" referred to in RFP Section 272100 1.9.C? Can you provide expected beneficial occupancy dates for each phase?**

    A: Beneficial occupancy begins when switches are installed, patched and in use.

11. **Are we correct in assuming there is no DBE, MBE, or WBE requirement in this RFP?**

    A: At the time of publishing that is correct. There is a 0% DBE goal for this IFB. Please see DBE Interim Final Rule (IFR) published by the DOT for more information:

https://www.transportation.gov/mission/civil-rights/disadvantaged-business-enterprise/DBE-IFR-10-03-2025

12. **Is a General Contractor license required for any item in this scope?**

    A: No

13. **Is patching considered a low-voltage job that a certified low-voltage contractor must do?**

    A: Integrator can conduct this work.

14. **During the site visit, there was a discussion about using new cables. Section 270505 1.2.C asks SI to reuse cables. Will the owner provide any new patch cables required? If not, should we account for patch cables? Please provide a percentage of port count as a reference.**

    A. The contractor will provide new patch cables; per division 271513 demolition specification will be updated to reflect this.

15. **Are existing cables Category 6 or 6A?**

    A: There is a mix of cat 5, cat 6, and cat 6a.

16. **Did RIAC identify any low-voltage Ethernet or fiber cabling needs that need to be included in this project?**

    A: No, only patching fiber and copper for new switches.

17. **Will space be available to store and stage hardware, especially for Phases 2 and 3?**

    A: Yes, but the space is very limited.

18. **Can we ship hardware directly to the airport if needed?**
    A: No, the contractor is responsible for receiving and/or escorting the delivery. The airport loading dock may be utilized for the delivery.

19. **Is a 25% expansion accounted for in the suggested BOM?**
    A: Switch replacement is one for one, there is no requirement for 25% spare port capacity.

20. **Can we propose two different OEM solutions? If yes, should these be submitted as two different pricing Options in the same bid?**
    A: Refer to specifications, no alternative is allowed for several of the products. Fortinet is the only allowed solution.

21. **Can we take the larger of the two as the BID Bond amount if we are providing two different OEM solutions?**
    A: Please see response to Question 20.

22. **The report suggests Fortigate Firewall replacement - but that is not part of this bid, correct?**
    A: Correct.

23. **The report suggests 3 OEMs - Addendum 1 says only Fortinet is approved, can we propose other US-based OEMs?**
    A: Fortinet is the only allowed solution.

24. **The addendum has changed and struck all references to Construction. Is a Rhode Island General Contractor License still required?**
    A: No, it is not.

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25. **There are differences between the Network Recommendation Report, the Scope of Work, and ADDENDUM NO. 001.**

    A: The intent of the recommendation report is to provide designer's insight into the planned network architecture which will be implemented by the contractor. This is high-level information which can be further developed in low level design.

26. **In section 320 of Bid Form Item K and Item L are missing.**

    A: Question not clear.

UPDATED SPECIFICATIONS PAGES ATTACHED

RIAC would like to remind all prospective bidders/offerors that additional Addendums may be issued by RIAC until the deadline for bid submissions. As such, RIAC encourages prospective bidders/offerors to visit www.flyri.com/riac/procurement on a frequent basis.

SECTION 272100

LOCAL AREA NETWORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.

C. All sections of Division 27 of these specifications also apply to this section.

1.2 DEFINITIONS

A. LAN –Local Area Network

B. AAA: Authentication, Authorization, and Accounting

C. GBIC: Gigabit Interface Converter

D. SFP: Small Form-factor Pluggable

E. QSFP: Quad Small Form-factor Pluggable

F. LAN: Local Area Network

G. MPLS: Multi-Protocol Label Switching

H. NTP: Network Time Protocol

I. PoE: Power over Ethernet

J. QoS: Quality of Service

K. SNMP: Simple Network Management Protocol

L. TCP/IP: Transmission Control Protocol / Internet Protocol

M. VLAN: Virtual Local Area Network

N. VoIP: Voice over Internet Protocol

1.3 SCOPE

A. The scope of work for this project includes all materials, equipment, hardware, software, and labor to install and make ready for Local Area Network and related Information Technology equipment. The Contractor shall provide all products required to ensure a fully operative system and provide proper installation of all equipment.

B. The Contractor shall procure, furnish, and install new network equipment to extend the existing three-tier RIAC network within the terminal.

C. The equipment in this specification shall be installed in the identified telecommunications room in the contract drawings.

D. The contractors shall integrate and test the network equipment in accordance with all applicable manufacturer and industry best practices. The contractor shall also furnish and provide training for both administrator and end users of the systems provided under this specification. System Operability and proper installation shall be verified through a comprehensive Quality Control Program that includes scheduled inspections and successful completion of acceptance and endurance testing.

E. It is the responsibility of the Contractor to perform the necessary coordination with RIAC IT representative to ensure all networking requirements are met with the installed LAN. This coordination is required and shall be included in the price of the contract.

F. Final configurations of new LAN equipment shall be configured by RIAC IT.

1.4 SUMMARY

A. This document is for the design, construction, and installation of the new Local Area Network equipment at Rhode Island T.F. Green International Airport. It includes all required active components, as needed to facilitate the many services which rely on connectivity.

B. The Contractor will procure, furnish and install new network switches to provide network connectivity to endpoints and services within the terminal. The equipment, software and services in this section shall be provided by a qualified vendor who is authorized and certified by the manufacturer for resale, configuration and maintenance.

C. The Contractor shall provide new 25G Single Mode Fiber (SMF) transceivers to support redundant uplinks to new distribution layer switches. The Contractor shall provide transceivers for new access layer switches and new distribution layer switches.

D. The Contractor shall provide new 40G SMF transceivers to support redundant uplinks to existing core layer switches. The Contractor shall provide transceivers for new distribution layer switches and existing core layer switches.

1.5 ACTION SUBMITTALS

A. Narrative of Operation of System

B. Manufacturer's Data and Product Cutsheets for the proposed equipment (hardware) and licensing (software) models.

C. Proof of certification by the manufacturer. The contractor will be an authorized partner and reseller for the hardware, software, and services included in this specification. Personnel providing services will have proof of certification for the skills listed in the Quality Assurance section

D. Pre-installation Shop Drawings or system block diagram and detailed Low-Level Design.

E. Contractor shall provide a total PoE Budget Calculation.

F. Provide complete Planning and Phasing Strategy for the equipment replacement to maintain the service continuity for the Airport throughout the implementation and the progress of the project of the new switch deployment.

G. Provide detailed MOP (Method of Procedure) outlining actions, tasks, and schedules.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For all network systems to include operation and maintenance manuals.

B. Overall Physical and Logical Network Topology Diagrams

C. Provide system block diagrams including major system components, network protocols, ports, and interrelationships of each system component.

D. As-built high-level and low-level network architecture design drawings.

1.7 SHOP DRAWINGS:

A. Logical and Physical Network Topology Diagrams: Provide system block diagrams noting major system components, network protocols, ports, and interrelationships of each component.

B. Rack Elevation Drawings: Provide drawings showing proposed console/equipment rack elevations and equipment arrangement.

1.8 SEQUENCE AND SCHEDULING PLAN:

A. Provide installation-scheduling plan for review and approval. Coordinate scheduling of with the airport.

1.9 WARRANTY

A. The warranty period for all equipment, devices, software, and hardware installed by the Contractor will start on the date of beneficial occupancy by RIAC IT at RIAC facilities. The Contract will include in the based bid the cost to assure coverage of all 3rd party equipment, hardware, devices, software, and licenses installed to be covered through the full first year of operation.

B. The manufacturer shall provide a Standard Warranty for all products to be free of defects in material and workmanship subject to license agreement terms and conditions.

C. The minimum warranty period is one (1) year from beneficial occupancy unless the standard manufacturer's warranty exceeds this period.

D. All Software upgrades and patches required in the first year of warranty shall be included in the cost of the initial warranty period.

E. The contractor shall guarantee and warranty all equipment, materials, workmanship, and installation, for a period of one (1) year.

1.10 QUALITY ASSURANCE

A. Installer Requirements:

1. Network equipment installer must be a certified professional meeting all requirements for the equipment manufacturer's reseller and warranty programs. Proof of such certifications must be provided with bid response.
2. The Contractor must provide documentation as part of their bid response to indicate that they have a minimum of 10 years project experience within the last five years in Commercial Airports.

B. Qualifications:

1. Installer:

a. Factory certified dealer specializing in data networks installation. Installer shall be capable of performing the work specified in this section with minimum 10 years documented experience in the field, while being authorized and approved by the manufacturer to resell, configure, and support systems described in this specification.

C. Service Facility:

1. Network systems integrator shall have service facilities within one hundred (100) miles of Rhode Island T.F. Green International Airport.

1.11 DELIVERY, STORAGE, AND HANDLING

A. Network switches and related equipment must be tested by the Contractor upon receipt at the Project site.

B. The Contractor will verify that equipment received from the manufacturer is not Dead on Arrival (DoA) and parts match what was ordered.

1.12 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install switches and connecting materials until wet work in spaces is complete and dry, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

PART 2 - PRODUCTS

2.1 GENERAL DESCRIPTION

A. The Contractor shall provide all equipment, materials, labor, and coordination services necessary to complete or perfect all parts of the Data Communications Network Equipment, and to ensure that they follow requirements stated or reasonably inferred by this Specification. Wherever herein the term provide or provided is used it shall be defined as procure, install and program as required for a fully functional and correctly operational System. All equipment under this Section shall be provided, maintained, and operated during the construction and implementation period, tested, and commissioned by the Contractor.

B. Network switch quantities shown on all Contract Network Architecture drawings are intended to be representative, in effort to show physical and logical high-level network topologies. Switch quantities shall be scaled to meet equipment schedules, including device quantities and connectivity requirements.

C. The Contractor shall perform all required coordination with the RIAC IT Representative and stakeholders to finalize all functional, operational, and performance requirements of the network design.

2.2 APPROVED MANUFACTURERS

A. Enterprise Network Equipment:

1. Fortinet Networks

2.3 GENERAL REQUIREMENTS

A. This section includes the minimum requirements for Data Communications Network Equipment.

B. All hardware requirements given are the minimum requirements. The Contractor's product shall meet or exceed these requirements. Additionally, the hardware selected shall meet the operational, functional, and performance requirements specified herein.

C. Future capacity design requirements:

1. UPoE+ (60 W/802.3bt) must be supplied to all ports of every new access layer switch as a baseline minimum. The Contractor is responsible for ensuring the right UPoE+ budget is afforded to all switches needing more total UPoE+ than this if the active draw is higher.

D. Future Port Capacity Requirements:

1. If less than 38 ports are needed use a single 48-port switch
2. If 38 or more ports are needed add a second 48-port switch to the stack
3. If more than 76 ports are needed add a third 48-port switch to the stack

E. The networks above are expected to each be given an efficient and unique IP addressing scheme that plans for a minimum of 25 percent endpoint device growth, while following an overall pattern that is easy to interpret as related to IPv4 addressing. An operator should be able to look at any endpoint device's IP address and understand quickly which network from the above list it resides in. It is assumed that RFC1918 Private Addressing will be used for internal IP addressing.

F. All network device uplinks and Virtual Switching Links (VSLs) must be sized based on Vendor fabric sizing guidelines, while also considering traditional oversubscription ratios for each network tier, based on specific workloads expected for this environment. Quantities of fiber optic transceivers for each switch / stack shall reflect those requirements and guideline best practice.

G. The Contractor shall be responsible for the supply, installation, and initial testing of the LAN equipment, meeting or exceeding the requirements of the functional specifications provided in this document and the associated drawings.

H. The scope of work for this project includes all materials, equipment, hardware, software, and labor to install and make ready for use Local Area Network equipment. It is the responsibility of the Contractor to perform the necessary coordination with the Construction Manager or RIAC IT Representative and other contractors performing work associated with this project to ensure all networking requirements are met by the installed LAN equipment.

I. The Contractor shall verify system operability and proper installation via completion of all required test plans.

2.4 NETWORK ACCESS SWITCHES

A. Contractor shall provide all Hardware and Professional Services. The network equipment shall be deployed in the identified telecommunications room in the contract drawings.

B. Network Core/Distribution Layer Switch:

1. FortiSwitch-2048F Layer 2/3 FortiGate switch controller compatible switch with 48x25G(SFP28) +8x100G (QSFP28)+2x10G(SFP+). Dual AC power supplies
2. 40 GE QSFP+ transceiver module, 10km range 40 GE QSFP+ transceiver module, long range 10km, LC connector, SMF, 40GBase-LR4, -40°C to 85°C, for systems with QSFP+/QSFP28 slots
3. 25GE SFP28 transceiver module, long range 25 GE / 10 GE SFP28 transceiver module, long range 10km, LC connector, SMF, 1310nm, 0°C to 70°C, for systems with SFP28 slots
4. FortiSwitch-2048F ~~3~~ **1** Year FortiCare Premium Support [for FS-2048F]
5. FortiSwitch-2048F ~~3~~ **1** Year Next Calendar Day Delivery Priority RMA Service (Requires FortiCare Premium or FortiCare Elite) [for FS-2048F]

C. Network End Of Row (EOR) Switch

1. FortiSwitch-1048E Layer 2/3 FortiGate switch controller compatible switch with 48 x GE/10GE SFP/SFP+ slots and 6 x 40GE QSFP+ or 4 x 100GE QSFP28. Dual AC power supplies
2. 40 GE QSFP+ transceiver module, 10km range 40 GE QSFP+ transceiver module, long range 10km, LC connector, SMF, 40GBase-LR4, -40°C to 85°C, for systems with QSFP+/QSFP28 slots
3. 25GE SFP28 transceiver module, long range 25 GE / 10 GE SFP28 transceiver module, long range 10km, LC connector, SMF, 1310nm, 0°C to 70°C, for systems with SFP28 slots
4. FortiSwitch-2048F ~~3~~ **1** Year FortiCare Premium Support [for FS-2048F]
5. FortiSwitch-2048F ~~3~~ **1** Year Next Calendar Day Delivery Priority RMA Service (Requires FortiCare Premium or FortiCare Elite) [for FS-2048F]

D. Network Access Layer Switch:

1. FortiSwitch-648F-FPOE Layer 2/3 FortiGate switch controller compatible PoE 802.3bt switch with 32x 2.5G RJ45 + 16x 5G RJ45 ports, 8x 25G SFP28 and MACSec. Max 1800W POE output limit
2. 25GE SFP28 transceiver module, long range 25 GE / 10 GE SFP28 transceiver module, long range 10km, LC connector, SMF, 1310nm, 0°C to 70°C, for systems with SFP28 slots
3. FortiSwitch-648F-FPOE ~~3~~ **1** Year FortiCare Premium Support [for FS-648F-FPOE]

E. All equipment licensing and support terms shall be procured and assigned to the designated RIAC IT Representative with minimum duration of ~~3~~ **1** year~~s~~.

F. PoE Budget Contractor shall provide a total PoE budget calculation, ensuring budget does not exceed redundant power supply capability (non-shared mode).

2.5 IDENTIFICATION PRODUCTS

A. Comply with TIA-606-B and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

2.6 GROUNDING

A. Comply with requirements in Section 270526 "Grounding and Bonding for Communications Systems" for grounding conductors and connectors.

B. Comply with TIA-607-B.

2.7 SOURCE QUALITY CONTROL

A. Prepare test and inspection reports.

PART 3 - EXECUTION

3.1 GENERAL

A. System installation and construction methods shall conform to the requirements as stated in General and Special Conditions of the Contract Documents.

B. The Contractor shall install all system components including furnished equipment, and appurtenances in accordance with the manufacturer's instructions, NFPA 70, ANSI-C2 and as shown, and shall furnish all cables, connectors, terminators, interconnections, services, and adjustments required for a complete and operable system.

C. Interconnection wiring between components mounted in the same rack or cabinet does not need to be installed in conduits.

D. Grounding shall be installed as necessary to preclude ground loops, noise, and surges from adversely affecting system operation.

E. For equipment mounted in drawers or on slides, provide the interconnecting cables with a service loop of not less than three feet and ensure that the cable is long enough to allow full extension of drawer or slide.

F. The Contractor’s Quality Assurance Inspector shall conduct a visual inspection of all installations to verify that the installations are in accordance with the RIAC’s and manufacturer's specifications. Records of the inspections signed and dated by the Quality Assurance Inspector shall be provided to the RIAC IT Representative. The RIAC IT Representative shall be notified by the Contractor of any inspection(s) and the RIAC IT Representative may elect to participate in any inspection(s).

G. All software/firmware/support information must be issued and held in the name of the Owner, not the Contractor.

3.2 HARDWARE INSTALLATION

A. Design plans for hardware selection, installation location, and installation details shall be provided for RIAC IT Representative's approval.

B. Installation of hardware shall be coordinated with the RIAC IT Representative.

C. The Contractor shall ensure the ventilation requirements for the hardware components are met.

D. The Contractor shall install and inspect all hardware required to fully meet the functional, operational, and performance requirements of this Section. The installation of the hardware shall be in accordance with the manufacturer's installation instructions.

3.3 GROUNDING

A. Install grounding according to the "Grounding, Bonding, and Electrical Protection" chapter in BICSI's "Telecommunications Distribution Methods Manual."

B. Comply with TIA-607 Latest Version and NECA/BICSI-607.

3.4 IDENTIFICATION

A. Labels shall be preprinted or computer-printed type, with a printing area and font color that contrast with equipment exterior color but still comply with TIA-606-B requirements.

3.5 QUALITY CONTROL

A. Test Plan/Procedure: The Contractor shall develop and submit a comprehensive Network Test Plan that has been coordinated with the RIAC IT Department for testing of the network to the Project Manager or Representative for review and approval 30 days prior to the beginning of any testing activities. The test plan shall detail the objectives of all tests. The tests shall clearly demonstrate that the system and its components fully comply with the requirements specified herein.

B. The contractor shall provide full staff and equipment support to the RIAC IT staff during testing of the network. This support shall include failover testing for all uplinks, preemptive fail back and testing of uplink bandwidth utilization. Support shall include provision of two (2) network technicians with Professional and/or Expert Level certifications for a period of at least two weeks.

C. Test Reports: The Contractor shall submit for each test, a test report document that shall certify successful completion of that test. Submit for review and acceptance within seven (7) days following each test. The test report shall contain, at a minimum:

1. Commentary on test results.
2. A listing and discussion of all discrepancies between expected and actual results and of all failures encountered during the test and their resolution.

3. Complete copy of test procedures and test data sheets with annotations showing dates, times, initials, and any other annotations entered during execution of the test.
4. Signatures of persons who performed and witnessed the test.
5. Test Resolution: Any discrepancies or problems discovered during these tests shall be corrected by the Contractor at no cost to the Owner. The problems identified in each phase shall be corrected and the percentage of the entire system re-tested determined by the Design Consultant before any subsequent testing phase is performed.

D. Termination

1. Performance verification test shall be terminated when:

   a. Individual components, subsystems, or the integrated system fail to perform as specified
   b. It is determined that system is missing components or installation is not complete.

2. Upon termination, corrective work shall be performed, and performance verification test rescheduled with RIAC IT Department.
3. Retesting shall be performed by Contractor at no additional expense.
4. The Contractor shall continue to perform corrective actions and retest until the system passes all tests to satisfaction of the RIAC IT Department and the Project Manager or Representative.

E. Final Inspection and Acceptance

1. After testing is complete, review tabulated records with the RIAC IT Department.
2. The Contractor will not be responsible for failures caused by:

   a. Outage of main power in excess of backup power capability provided that automatic initiation of all backup sources was accomplished, and automatic shutdowns and restarts of systems performed as specified.
   b. Failure of any Airport furnished power, communications, and control circuits provided failure was not due to Contractor furnished equipment, installation, or software.

3.6 TRAINING

A. The Contractor shall supply the appropriate training for designated RIAC IT personnel. The training shall provide personnel with a working knowledge of the following System configuration and operations:

1. LAN

B. The Contractor shall prepare training materials and provide a technician to conduct all training for administrators. Formal instruction shall be given to the Owner-designated key personnel. Such instruction shall consist of no less than eight (8) hours delivered in four (4) separate two (2) hour

training sessions each. Training shall cover operation, programming, troubleshooting and maintenance.

1. Provide a written schedule of training session dates and times.
2. Training schedule subject to RIAC project representative approval.

C. The following general training guidelines shall be followed:

1. By means of training classes augmented by individual instruction as necessary, the Contractor shall fully instruct the RIAC designated staff in the operation, adjustment and maintenance of RIAC LAN equipment.
2. The Contractor shall be required to provide all training aids (e.g., notebooks, manuals).
3. All training shall be completed a minimum of two weeks prior to the RIAC LAN becoming operational.
4. All training requirements identified are minimum requirements.

END OF SECTION 272100

SECTION 270505

SELECTIVE TELECOMMUNICATIONS DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Project drawings and general provisions of the Contract, including but not limited to all; General and Supplementary Conditions, Division 01 Specification Sections, and stipulated Specification Sections shall apply to this and all related Division 27 Specification Sections.

B. Related Specification Sections:

1. Division 01 Specifications.
2. Division 27 Specifications.
3. Related Project Specifications -All Applicable Divisions.

1.2 DESCRIPTION

A. This contract shall include the task of selective demolition of existing IT infrastructure in spaces defined for the project. This section specifies the requirement to identify, decommission, remove, dispose of, and reconfigure circuits/signaling as required to support phasing, temporary operations locations, and facility demolition.

B. Switches are to be removed once new switches are procured, programmed, staged, and ready for implementation.

C. ~~Patch cords shall be re-used in each telecommunications room. The contractor shall confirm in advance areas where new patch cords may be required to support the switch replacement.~~

1.3 SECTION INCLUDES

A. Section Includes:

1. Demolition and removal of selected ethernet switches and associated patch cords as outlined in the construction drawings.
2. Demolition, temporary removal, relocation, or reconfiguration of selected site elements and/or Information Technology (IT), Security, or other Special Systems or infrastructure.
3. Salvage of existing items to be reused or recycled.

1.4 REFERENCE STANDARDS AND CODES

A. Refer to Section 270000 "Communications General Requirements" for a list of Reference Standards, Codes, and Documents.

B. Definitions

1. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.
2. Remove and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner.
3. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.
4. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed, and salvaged, or removed and reinstalled.

1.5 SCOPE

A. The Contractor shall include in the Bid all labor, materials, tools, transportation, storage costs, equipment, insurance, temporary protection, permits, inspections, taxes, and all necessary and related items required to provide complete demolition and cutover of existing telecommunication systems shown and described in the Specifications.

B. The Contractor is responsible for providing and coordinating phased activities and construction methods that minimize disruption to operations of the existing systems. Equipment and devices shall not be removed or reconfigured until removal or reconfiguration has been coordinated with the Owner.

C. The Contractor shall coordinate interfaces to existing systems that are being demolished to minimize disruption to the operations of the existing systems. Any systems outages shall be approved in advance and scheduled with the Owner. The minimum required notification to the Owner is thirty (30) days. The shutdown of ACAMS may require sixty (60) days' notification depending on the situation to be coordinated with Owner.

D. The Contractor shall coordinate specialty electronic, ACAMS, IT data networks, common use, flight information systems, displays, video surveillance, public address, and any other IT infrastructure systems.

E. The scope for selective demolition of IT and Security systems includes all pathways, cable plant, terminations, and equipment discovered in harm's way of the project demolition planning, including both active communication cabling and cabling determined to be abandoned from previous use. IT and Security devices and cabling found to be active shall be reconfigured to support intended use via re-routing and/or removed and replaced with temporary and new permanent construction.

No Equipment, pathways, or cabling shall be removed or decommissioned before approval by the Owner, and a workaround has been designed, scheduled, and classified as direct demolition and or required workaround for temporary or new space support of system operations.

F. It shall be the responsibility of the Contractor to furnish and install all necessary cabling, conduits/raceways, cable terminations, controls, systems, materials, devices, components, electrical power, equipment racks/cabinets, and software as well as all appurtenances, programming, commissioning, and testing necessary to deliver a phased and or final new build of systems impacted by demolition as indicated by the contract documents.

G. Tracing pathways and cables

1. Identify and tag all pathways and cabling impacted by space demolition.
2. Provide temporary and permanent pathways, cabling, and equipment mounting/attachments as required to maintain operations.
3. Schedule and coordinate cutovers, decommissioning, and commissioning of systems with various Owners.

1.6 MATERIAL OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes the property of the Contractor.

1.7 FIELD/SITE CONDITIONS

A. The Owner will occupy portions of the building immediately adjacent to the selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.

B. Field verifies the existing conditions, and device equipment locations to determine the extent of the demolition required. Notify the Engineer of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

C. Hazardous Materials (It is not expected that hazardous materials will be encountered in the Work).

1. If suspected hazardous materials are encountered, do not disturb them; immediately notify the Engineer.

D. Storage or sale of removed items or materials on-site is not permitted.

E. Utility Service

1. Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 GENERAL – SELECTIVE DEMOLITION

A. Demolition and construction methods shall conform to the Owner's requirements and all applicable building codes.

B. Demolish and remove existing construction to the extent required by new construction and as indicated. Use methods required to complete the Work within the limitations of governing regulations and as follows:

1. Remove all abandoned cables from origin to destination.
2. Neatly cut openings and holes plumb, square, and true to the dimensions required. Use cutting methods is least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering, and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
4. Do not use cutting torches until the work area is cleared of flammable materials. Concealed spaces, such as duct and pipe interiors, verify the condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and/or portable fire suppression devices during flame-cutting operations.
5. Maintain adequate ventilation when using cutting torches.
6. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of them off-site.
7. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
8. Dispose of demolished items and materials promptly.

C. Removed and Salvaged Items

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify the contents of containers.
3. Store items in a secure area until delivery to the Owner.
4. Transport items to Owner's designated storage area. Coordinate delivery of equipment with General Contractor, Owner, or Owner's Representative seven (7) days before delivery.
5. Protect items from damage during transport and storage.

D. Removed and Reinstalled Items

1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack or crate items after cleaning and repairing. Identify the contents of containers.
3. Protect items from damage during transport and storage.

4. Reinstall items in the locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, support, and miscellaneous materials necessary to make the item functional for the use indicated.
5. Perform testing on reinstalled active systems and get sign-off by an Owner approved inspector that systems are re-connected and working properly.

E. Existing Items to Remain

1. Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by the Engineer, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.2 EXAMINATION

A. Verify that utilities have been disconnected and capped per Owner approved procedures before starting selective demolition operations.

B. Survey the existing condition of all IT-related conduits and cables from origin to destination and correlate with requirements indicated to determine the extent of selective demolition required.

C. Label all conduits and cables with origin, destination, and what system they serve.

D. Consult with the Owner to determine whether systems can be disabled or whether a new parallel system needs to be installed.

3.3 UTILITY SERVICES

A. Existing Services/Systems to Remain

1. Maintain services/systems indicated to remain and protect them against damage.
2. Comply with requirements for existing services/systems interruptions.
3. When temporary bypass systems are installed, test and get approval from the Engineer before proceeding with the demolition of existing systems.
4. For existing equipment cabinets with active components in them, provide an air-tight dust seal around the cabinet and circulate cooling air with a portable air conditioning unit or other means to ensure equipment does not overheat.

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned

1. Locate, identify, disconnect, and seal or cap off indicated utility services serving areas to be selectively demolished.
2. The Owner will arrange to shut off indicated services/systems when requested by the Contractor.
3. Arrange to shut off indicated utilities with utility companies.

4. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass the area of selective demolition and that maintain the continuity of services/systems to other parts of the building.

3.4 PREPARATION

A. Site Access and Temporary Controls

1. Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
2. Comply with requirements for access and protection.

B. Temporary Facilities

1. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
2. Protect to ensure the safe passage of people around selective demolition areas and to and from occupied portions of the building.
3. Provide temporary weather protection, during the interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
4. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
5. Cover and protect furniture, furnishings, and equipment that have not been removed.
6. Comply with requirements for temporary enclosures, dust control, heating, and cooling.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

A. General

1. Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from the Project site and legally dispose of them in an EPA-approved landfill.
2. Do not allow demolished materials to accumulate on-site.
3. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
4. Remove debris from elevated portions of the building by chute, hoist, or another device that will convey debris to grade level in a controlled descent.

B. Burning

1. Do not burn demolished materials.

C. Disposal

1. Transport demolished materials off the Owner's property and legally dispose of them.

4.1 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

B. The contractor shall be required, daily, to dispose of any demolished material not required to be returned to the Owner. All materials shall be transported off the Owner's property at the expense of the Contractor.

C. At the end of each workday or shift, the Contractor shall be required to clean up the work area and remove all construction debris such that the site is clean and usable without hazards to workers.

END OF SECTION 270505

Rhode Island
Airport Corporation

####END OF ADDENDUM###